

FIG. 1

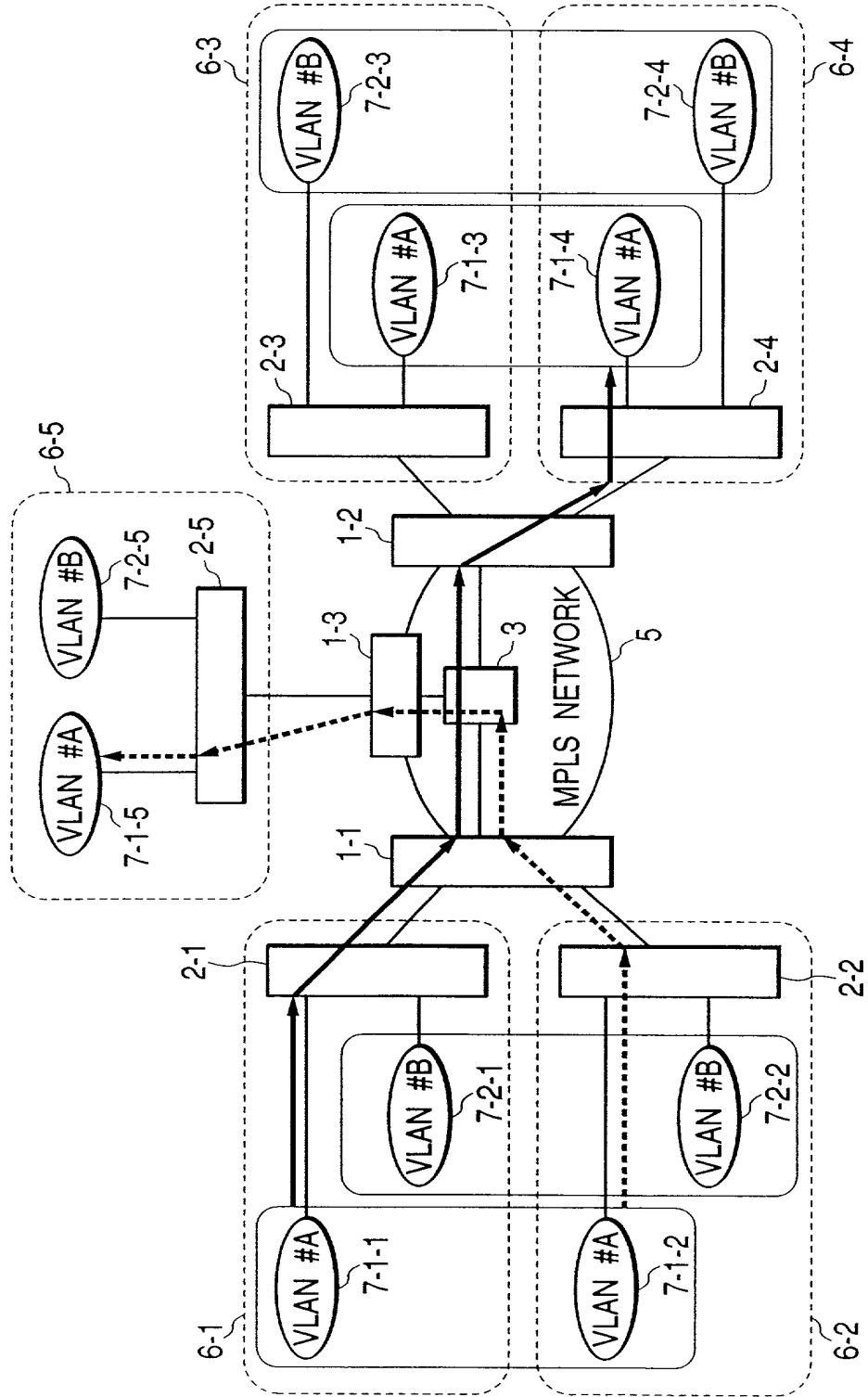
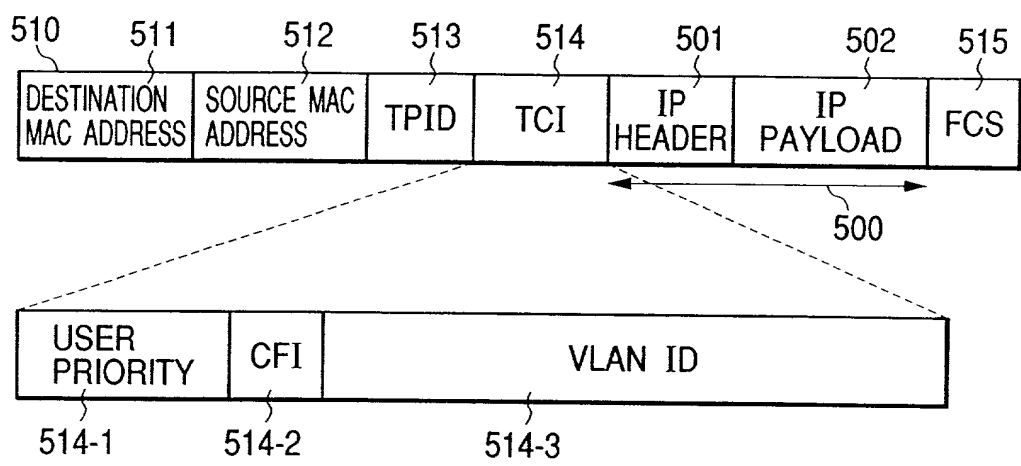


FIG. 2



TCI : TAG CONTROL INFORMATION
CFI : CANONICAL FORMAT INDICATOR
TPID : TAG PROTOCOL IDENTIFIER

FIG. 3

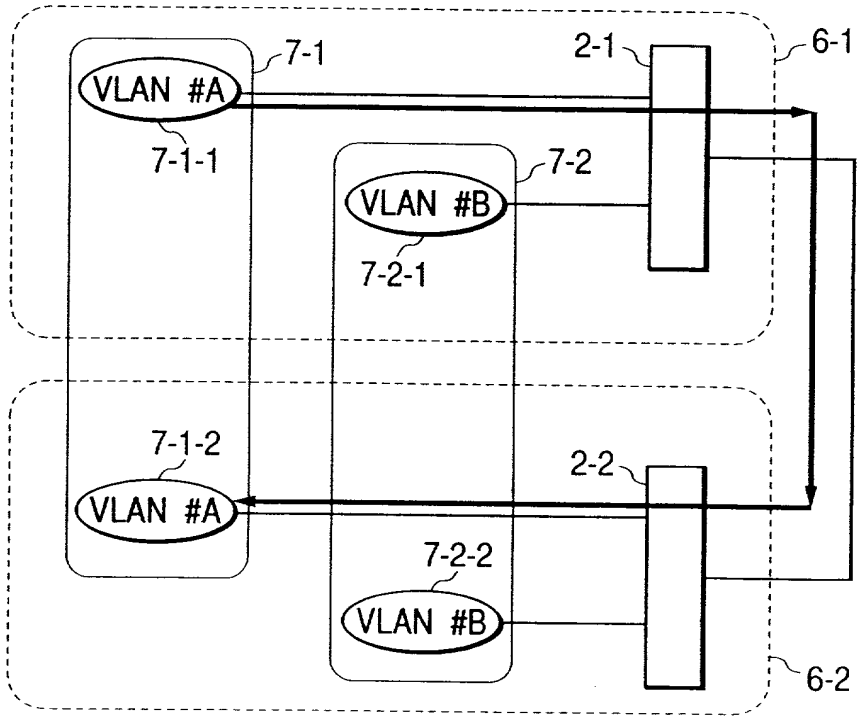


FIG. 4

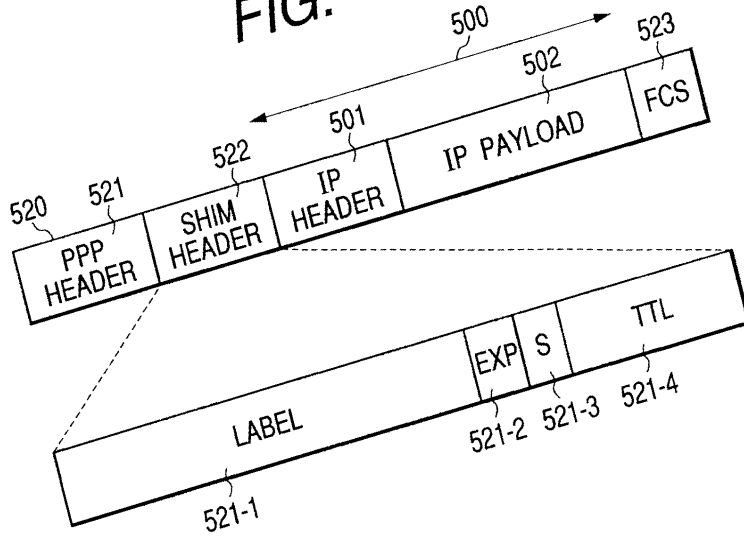


FIG. 5

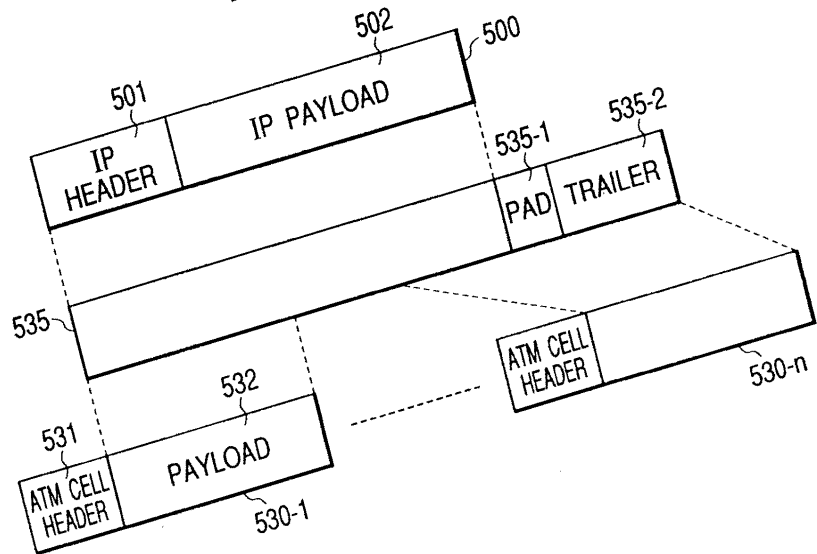


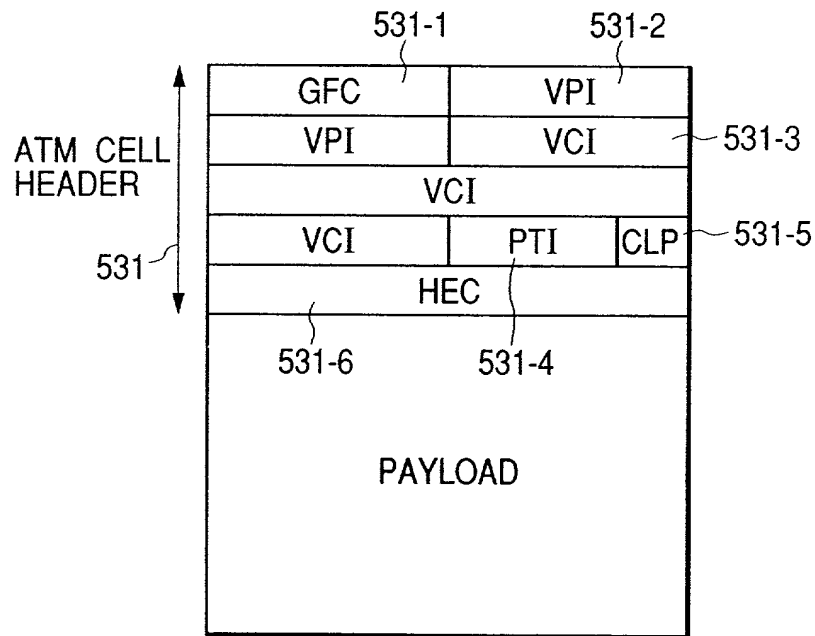
FIG. 6

FIG. 7

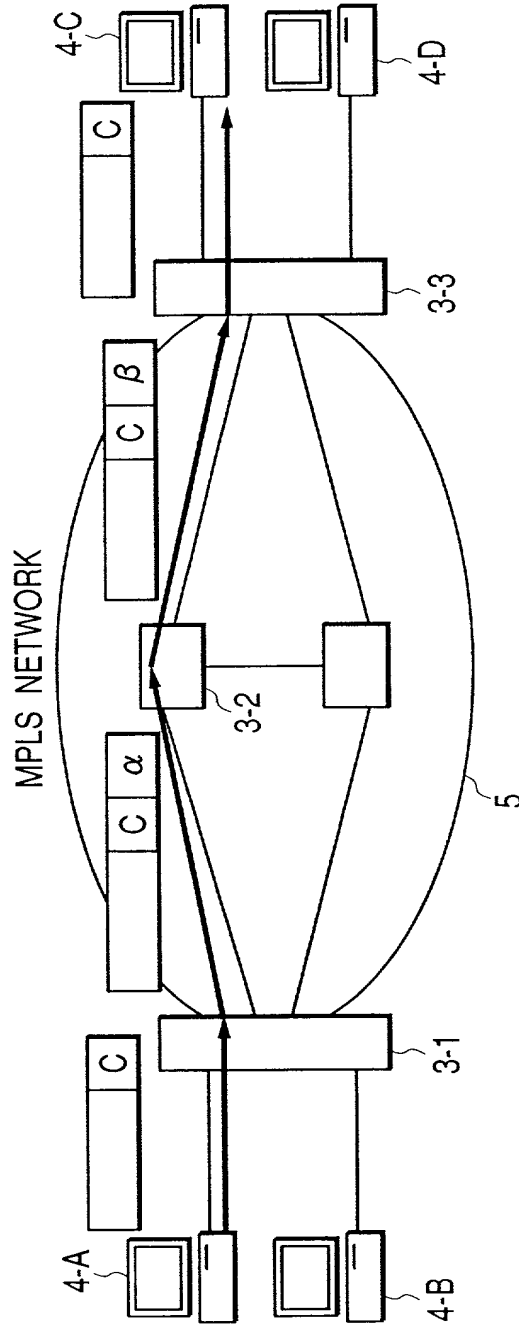


FIG. 8

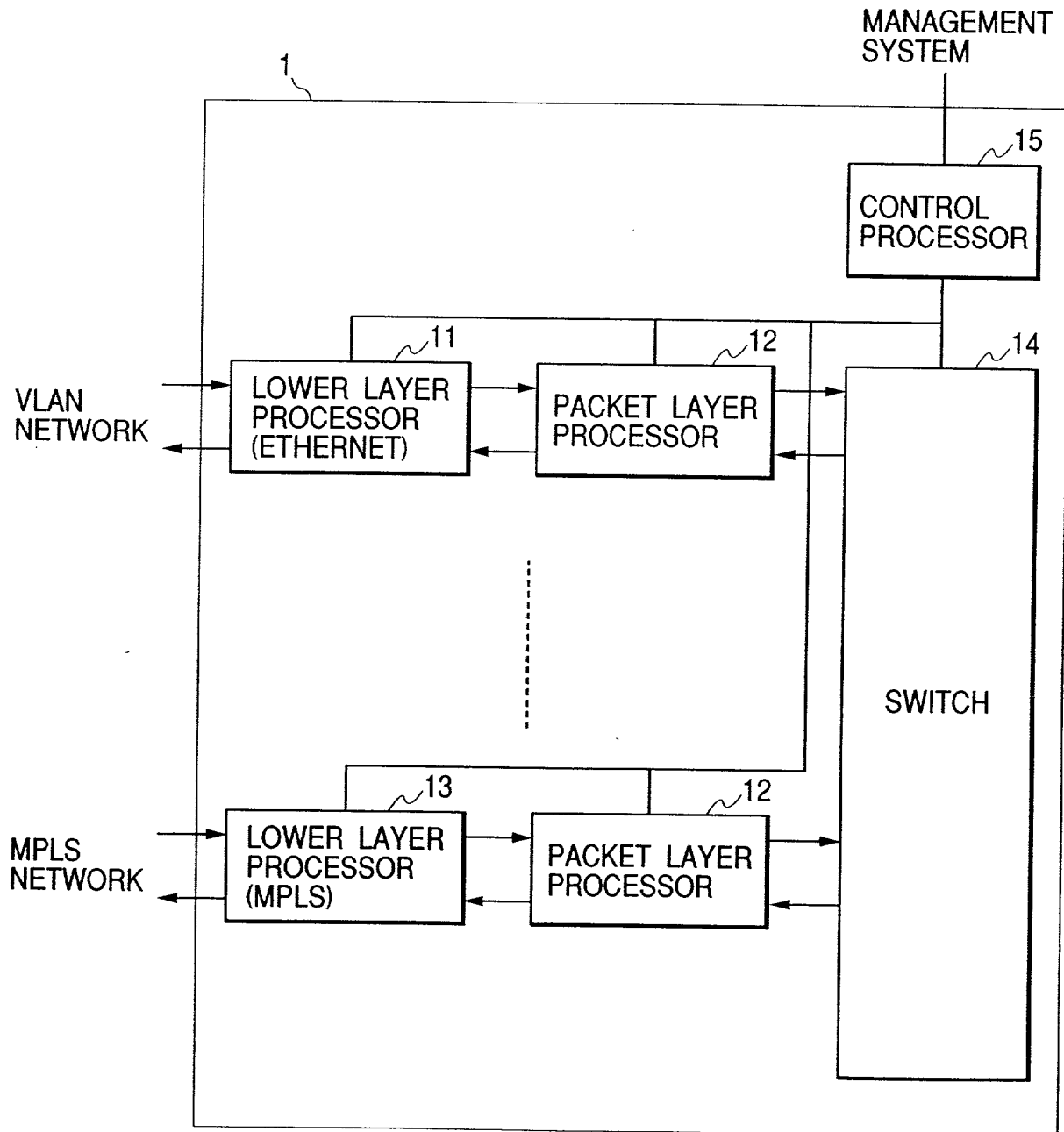


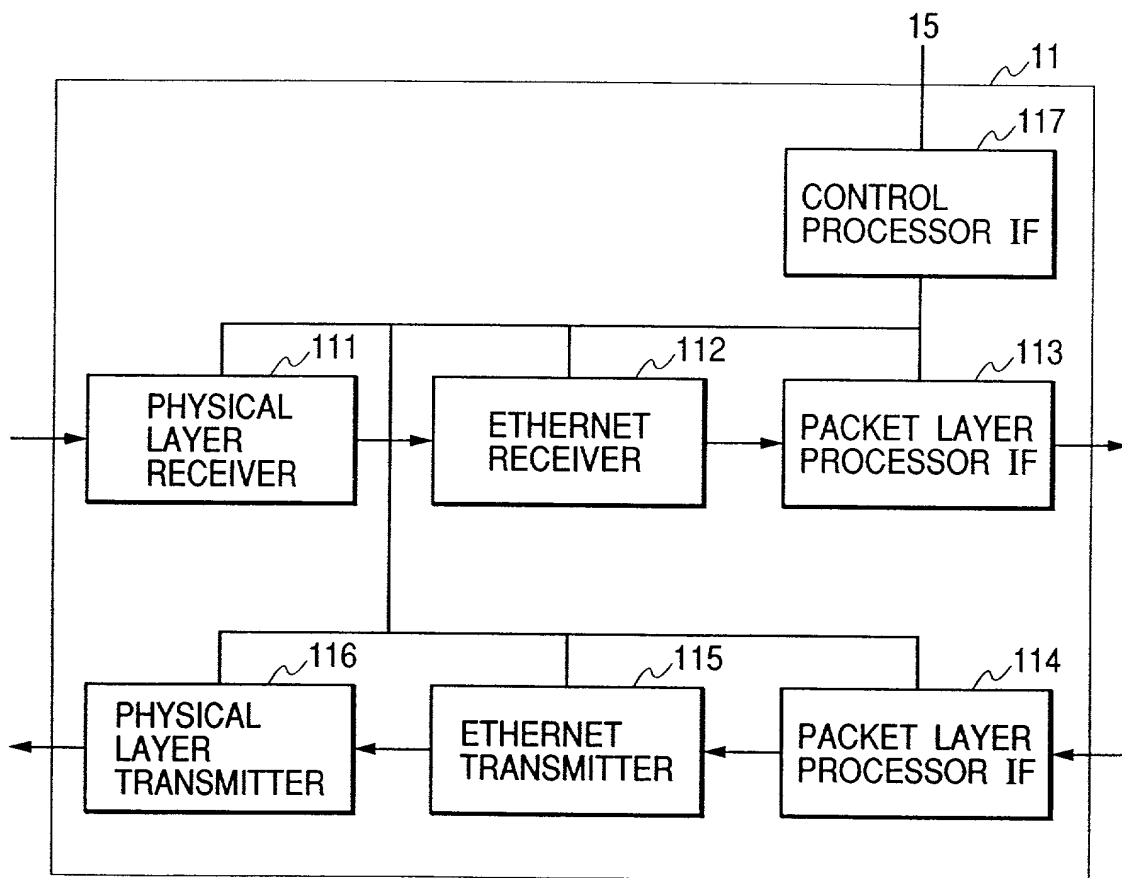
FIG. 9

FIG. 10

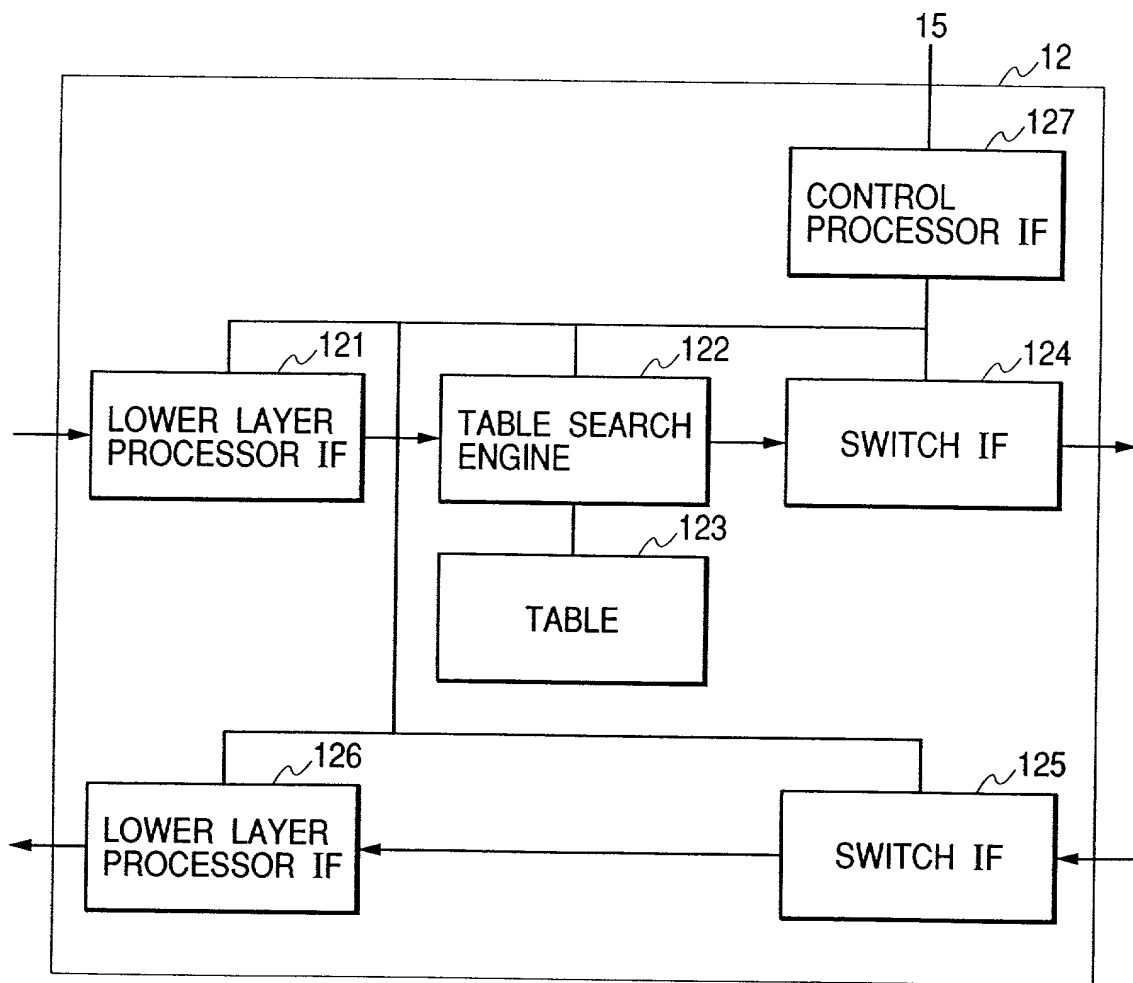


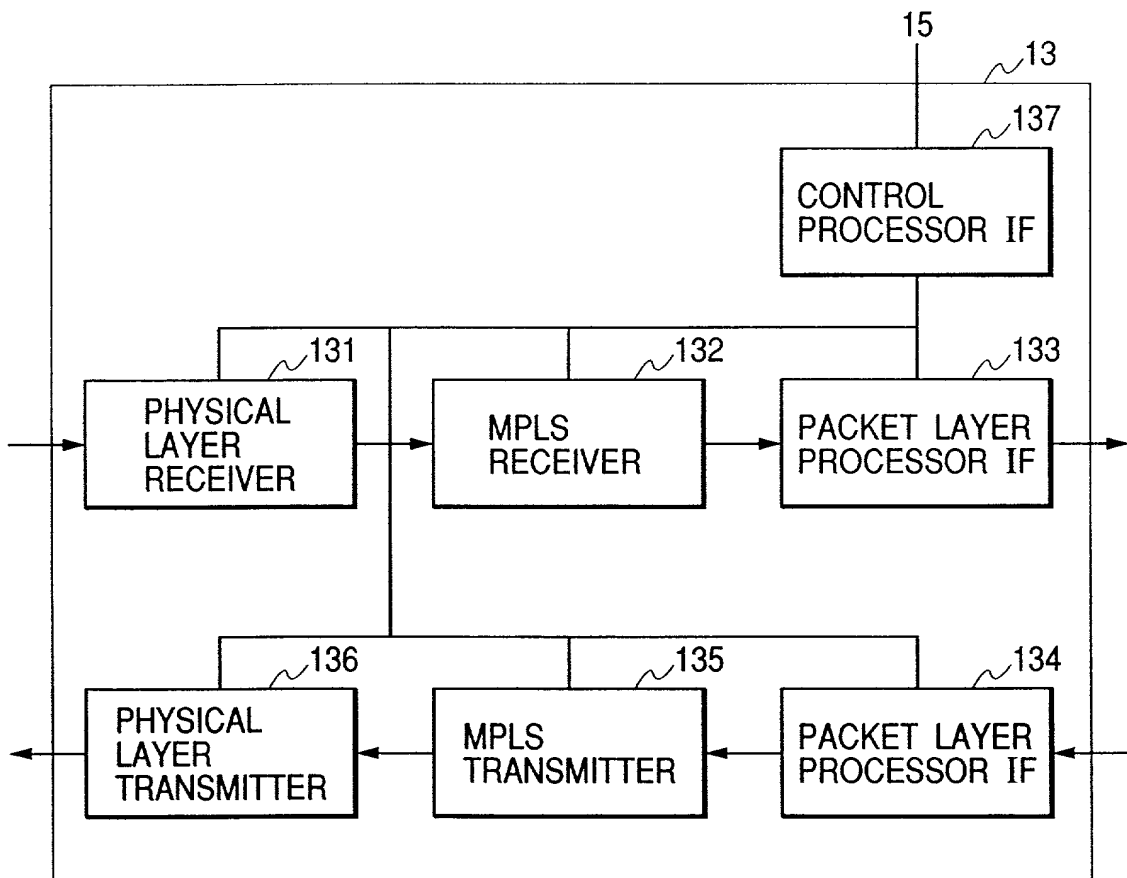
FIG. 11

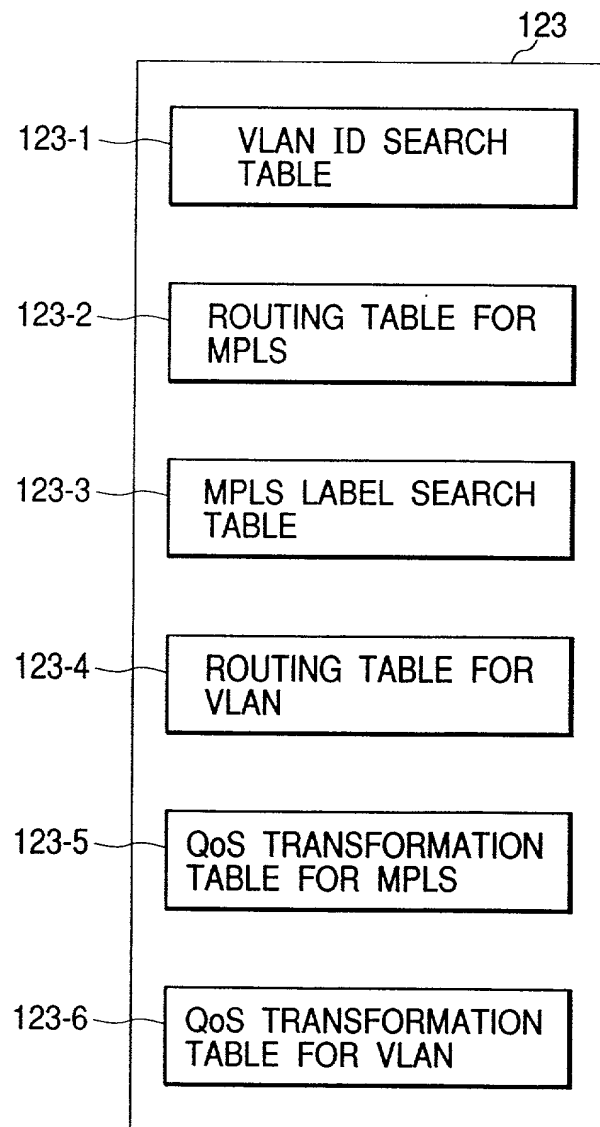
FIG. 12

FIG. 14

| | | 123-2-1 | 123-2-2 | 123-2-3 |
|----------------|---------|---------------------------|-----------------|---------------------|
| 123-2 | | DESTINATION IP ADDRESS | OUTPUT LABEL | OUTPUT PHY. PORT |
| FOR VLAN #A | 123-2-a | 192.168.10.0 | 100 | 3 |
| | | 192.168.20.0 | 101 | 5 |
| | | ⋮ | ⋮ | ⋮ |
| FOR VLAN #B | 123-2-b | 192.168.10.0 | 102 | 5 |
| | | 192.168.20.0 | 103 | 3 |
| | | ⋮ | ⋮ | ⋮ |
| | | ⋮ | ⋮ | ⋮ |
| | | SEARCH KEY | RESULT | |

FIG. 15

| 123-3-1 INPUT LABEL | 123-3-2 VLAN |
|------------------------|-----------------|
| 100 | VLAN #A |
| 101 | VLAN #A |
| 102 | VLAN #B |
| ⋮ | ⋮ |

SEARCH KEY RESULT

FIG. 16

| | | 123-4-1 | 123-4-2 | 123-4-3 | 123-4-4 |
|-------|---------|---------------------------|-----------------------|-------------------|---------------------|
| 123-4 | VLAN #A | DESTINATION IP ADDRESS | MAC ADDRESS | OUTPUT VLAN ID | OUTPUT PHY. PORT |
| | | 192.168.10.0 | aa.bb.cc. dd.ee.ff | 10 (VLAN #A) | 8 |
| | | 192.168.20.0 | 11.22.33. 44.55.66 | 10 (VLAN #A) | 9 |
| | 123-4-a | ⋮ | ⋮ | ⋮ | ⋮ |
| 123-4 | VLAN #B | 192.168.10.0 | aa.bb.cc. dd.ee.ff | 20 (VLAN #B) | 9 |
| | | 192.168.20.0 | 11.22.33. 44.55.66 | 20 (VLAN #B) | 8 |
| | 123-4-b | ⋮ | ⋮ | ⋮ | ⋮ |
| | | ⋮ | ⋮ | ⋮ | ⋮ |

SEARCH KEY RESULT

FIG. 17

| 123-10 | 123-10-1 | 123-10-2 | 123-10-3 |
|--------|--|------------------|----------|
| | TCP/IP HEADER (DESTINATION IP ADDRESS) | USER PRIORITY | MPLS QoS |
| | 192.168.0.0 | 0 | 0 |
| | 192.168.0.0 | 7 | 7 |
| | ⋮ | ⋮ | ⋮ |

SEARCH KEY RESULT

FIG. 19

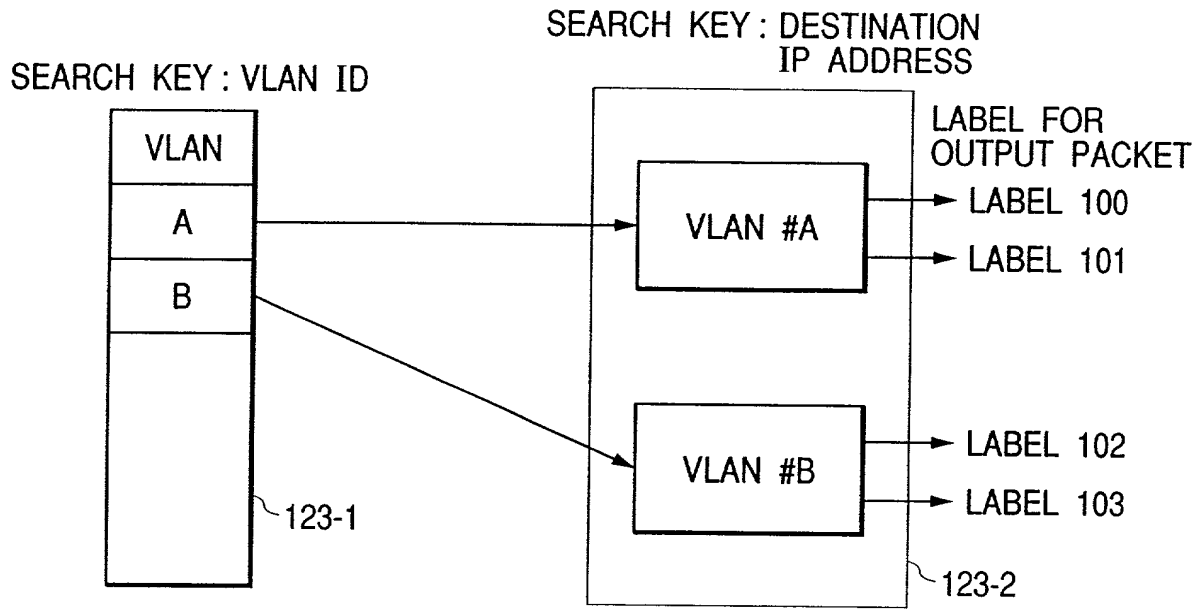


FIG. 20

